



DOCKET NO.: CHIR-0340

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Bernhard Knapp, et al.

Application No.: 10/662,126

Filing Date: September 12, 2003

**For: PROTEINS, IN PARTICULAR MEMBRANE PROTEINS, OF
HELICOBACTER PYLORI**

Confirmation No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Examiner: Not Yet Assigned

DATE OF DEPOSIT: *February 19, 2004*

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Felicity E. Groth
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REGISTRATION NO.: 47,042

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

- ☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

☐ In accordance with § 1.129(a), this Information Disclosure Statement is being filed in connection with ☐ the first or ☐ second After Final Submission, therefore:

☐ Certification in Accordance with § 1.97(e) is attached; or

☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

☐ Certification in Accordance with § 1.97(e) is attached;

or

☐ The fee of \$180.00 as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of \$180.00 as set forth in § 1.17(p).

- ☐ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- ☒ Copies of references listed on the attached Form PTO-1449 are enclosed herewith
- ☐ Copies of references listed on the attached Form PTO 1449 are not required to be submitted pursuant to the June 30, 2003 recent revisions to 37 CFR § 1.98(a)(2)(i).

EXCEPT THAT:

- ☐ In view of the voluminous nature of references [list as appropriate], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.
- ☒ In accordance with § 1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. § 120 have been made in the instant application:
- ☒ Copies of references **1 thru 19 and 28 thru 39** listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior Application No.09/230,158, filed **January 19, 1999**.

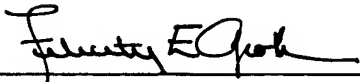
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Date: *February 19, 2004*



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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. CHIR-0340	Application No. 10/662,126
		Applicant Berhard Knapp, et al.	
		Filing Date September 12, 2003	Group Not Yet Assigned
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	1	Blaser, et al., "Identification and Characterization of <i>Campylobacter jejuni</i> Outer Membrane Proteins", <i>Infection and Immunity</i> , 1983 , 42(1), 276-284	
	2	Doig, et al., "Identification of Surface-Exposed Outer Membrane Antigens of <i>Helicobacter pylori</i> ", <i>Infection and Immunity</i> , 1994 , 62(10), 4526-4533	
	3	Doig, et al., "Isolation and Characterization of a Conserved Porin Protein from <i>Helicobacter pylori</i> ", <i>Journal of Bacteriology</i> , 1995 , 177(19), 5447-5452	
	4	Doig, et al., "Production of a Conserved Adhesion by the Human Gastro duodenal Pathogen <i>Helicobacter pylori</i> ", <i>Journal of Bacteriology</i> , 1992 , 174(8), 2539-2547	
	5	Dunn, et al., "Purification and Characterization of Unease from <i>Helicobacter pylori</i> ", 1990 , <i>Journal of Bio-Chemistry</i> , 1990 , 265(16), 9464-9469	
	6	Evans, et al., "Cloning, Nucleotide Sequence and Expression of a Gene Encoding an Adhesin Subunit Protein of <i>Helicobacter pylori</i> ", 1993 , <i>Journal of Bacteriology</i> , 175(3), 674-683	
	7	Exner, et al., "Isolation and Characterization of a Family of Porin Proteins from <i>Helicobacter pylori</i> ", 1995 , <i>Infection and Immunity</i> , 63(4), 1567-1572	
	8	Tomb, J. et al., "The Complete Genome Sequence of the Gastric Pathogen <i>Helicobacter Pylori</i> ", <i>Nature</i> , 1997 , 388, 539-412	
	9	Tufano, et al., "Immunobiological Activities of <i>Helicobacter pylori</i> Porins", <i>Infection and Immunity</i> , 1994 , 62(4), 1392-1399	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	11	Bukanov, N.O. et al., <i>Molecular Microbiology</i> , February 1994 , 11(3), 509-523	
	12	Dunkley, M.L. et al, <i>Microb Ecol. Health Dis.</i> , 1991 , 4(spec. issue), S148	
	13	Heap, K. et al., <i>Microb Ecol. Health Dis.</i> , 1991 , 4(spec. issue), S119	
	14	Lewin, R., "When does Homology Mean Something Else", <i>Science</i> , 1987 , 237, 1570	
	15	Monath, T.P. et al., <i>American Journal of Gastroenterology</i> , 1994 , 89(8), 1383	
	16	Orkin, S.H. et al., <i>Report and Recommendations of the Panel to Assess the NIH Investment in Research on Game Therapy</i> , December 1995	
	17	Reeck, G.R. et al., "Homology" in Proteins and Nucleic Acids: A Terminology Muddle and a Way Out of It", <i>Cell</i> , 1987 , 50, 667	
	18	Taylor, D.E. et al., <i>J. Bacteriology</i> , November 1992 , 174(21), 6800-6806	
	19	Yokoyama, T. et al., <i>Alimentary Pharmacology and Therapeutics</i> , 2000 , 14(1), 193-198	
	20	Alberts, B. et al., "Molecular Biology of the Cell", <i>Membrane Proteins</i> , 2 nd Ed., Garland Publishing, Inc., 1989 , 284-298	
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	21	Bolin, I. et al., "Identification of <i>Helicobacter pylori</i> by Immunological Dot Blot Method Based on Reaction of a Species-Specific Monoclonal Antibody with a Surface-Exposed Protein", <i>J. of Clinical Microbiology</i> , 1995 , 33, 381-384
	22	Drouet, E.B. et al., "Characterization of an Immunoreactive Species-Specific 19-Kilodalton Outer Membrane Protein from <i>Helicobacter pylori</i> by Using a Monoclonal Antibody", <i>J. of Clinical Microbiology</i> , 1991 , 29, 1620-1624
	23	Huang, J., et al., "Identification of Erythrocyte-Binding Antigens in <i>Helicobacter pylori</i> ", <i>J. of Gen. Microbiol.</i> , 1992 , 138, 1503-1513
	24	Kostrzynska, M. et al., "Molecular Characterization of a Converted 20-Kilodalton Membrane-Associated Lipoprotein Antigen of <i>Helicobacter pylori</i> ", 1994 , 176(19), 5938-5948
	25	Bullimore, D. et al., "The Role of Polyamines in Hepatic Encephalopathy and Cerebral Oedema", <i>European Journal of Gastroenterology & Hepatology.</i> , 1993 , 5, 63-67
	26	Labigne, A, et al., "Shuttle Cloning and Nucleotide Sequences of <i>Helicobacter pylori</i> Genes Responsible for Urease Activity", <i>J. Bacteriol</i> , 1991 , 173, 1920-1931
	27	Odenbreit, S. et al., "Cloning and Genetic Characterization of <i>Helicobacter pylori</i> Catalase and Construction of a Catalase-Deficient Mutant Strain", <i>J. Bacteriol</i> , 1996 , 178, 6960-6967
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U. S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Subclass

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Country	Translation	
				YES	NO
	28	FR 2 724 936	09/22/94	France	
	29	WO 91/9116457	10/91	PCT	
	30	WO 94/26901	11/24/94	PCT	
	31	WO 94/9400580	01/94	PCT	
	32	WO 96/38475	12/05/96	PCT	
	33	WO 96/40893	12/19/96	PCT	
	34	WO 97/11721	04/03/97	PCT	
	35	WO 97/12908	04/10/97	PCT	
	36	WO 97/12909	04/10/97	PCT	
	37	WO 97/19098	05/29/97	PCT	
	38	WO 97/37044	10/09/97	PCT	
	39	WO 98/04702	02/98	PCT	

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